



**TM Series i-Vu
Building
Automation
System
Thermostats**



Carrier TM Series i-Vu Building Automation System Thermostats Owner's Manual

[Home](#) » [Carrier](#) » Carrier TM Series i-Vu Building Automation System Thermostats Owner's Manual 

Contents

- [1 Carrier TM Series i-Vu Building Automation System Thermostats](#)
- [2 Product Information](#)
- [3 Usage Instructions](#)
- [4 FAQ](#)
- [5 INTRODUCTION](#)
- [6 Key Features](#)
- [7 Applications](#)
- [8 Specifications](#)
- [9 ABOUT COMPANY](#)
- [10 Documents / Resources](#)
 - [10.1 References](#)
- [11 Related Posts](#)



Carrier TM Series i-Vu Building Automation System Thermostats



Product Information

The TB and TM Series Thermostats are designed to control temperature and humidity in various applications. Depending on the specific requirements, different models are available.

- **TB Series:** Available in different configurations such as 24 V, Temp. Only or 110 – 220V, Temp, Humidity, Motion.
- **TM Series:** Available in options like 24 V, Temp. Only or 110 – 220V, Temp. Only.

Usage Instructions

TB Series (BACnet) Thermostats:

- Part# TB-24-C: 24 V, Temp. Only
- Part# TB-24-HM-C: 24 V, Temp, Humidity, Motion
- Part# TB-C: 110 – 220V, Temp. Only
- Part# TB-24: TB-24-HM: TB
- Communication: BACnet MS/TP (subordinate device) with baud rates up to 76.8 kbps
- Power Requirements: Detected and set automatically by the thermostat

TM Series (MODBUS) Thermostats:

- Part# TM-24: 24 V, Temp. Only
- Communication: Modbus RTU (server) with baud rates up to 76.8 kbps
- Power Requirements: Detected and set automatically by the thermostat

FAQ

Where can I find more information about the product?

For more information, contact your local Carrier Controls Expert. Visit the Controls Expert Locator at www.carrier.com/controls-experts.

INTRODUCTION

The Carrier TB and TM Series Thermostats are available in BACnet (TB series) or MODBUS (TM series) communication protocols and come with various options and features for a wide range of HVAC applications. The TB and TM Series thermostats offer either zone/room/building control or building management system (BMS) level control. Utilizing Carrier's powerful i-Vu® building automation system's platform, the user can be sure that each space has precision temperature control.

Key Features

- Built-in temperature, humidity, and/or motion sensing for optimal control
- Intuitive push-button interface with a clear LCD
- BACnet or MODBUS communication protocol capable (depending on model) for flexible system integration
- Configurable inputs and outputs to support a variety of HVAC applications
- Real-time clock maintains accurate time for up to 7 days during power outages
- Choice of 24VAC or 110-220V power supply for installation flexibility*

Applications

- Fan (FCUs): Enhance occupant comfort by providing individual control over fan speed and temperature
- Rooftop Units (RTUs): Optimize RTU operation for energy efficiency through precise temperature and airflow control
- Heat Pumps: Maximize heat pump performance and efficiency with integrated control of heating and cooling modes
- Variable Frequency Drives (VFDs): Seamlessly integrate with VFDs to fine-tune motor speeds and optimize energy consumption

Specifications

| TB Series (BACnet) | Part# | | |
|--------------------|---|------------------------------|------------------------|
| Options | 24 V, Temp. Only | 24 V, Temp, Humidity, Motion | 110 – 220V, Temp. Only |
| Branded | TB-24-C | TB-24-HM-C | TB-C |
| Unbranded | TB-24 | TB-24-HM | TB |
| Communication | BACnet MS/TP (subordinate device) Baud rates up to 76.8 kbps are detected and set automatically by the thermostat. | | |
| TM Series (MODBUS) | Part# | | |
| Options | 24 V, Temp. Only | – | 110 – 220V, Temp. Only |
| Unbranded | TM-24 | – | TM |


| | | | |
|--|--|-------------|---|
| Communication | Modbus RTU (server) Baud rates up to 76.8 kbps are detected and set automatically by the thermostat. | | |
| Power Requirements | 24 VAC ± 15% 4VA no load, 76 VA Full Load | 110-220 VAC | |
| Display | LCD | | |
| Sensing Element | | | |
| Temperature | Range: 41-95° (5-35°C), Accuracy: ± 1°F (0.5°C) | | |
| Humidity Range: 10-90% Accuracy: ± 3% Typical | — | X | — |
| Motion Sensor Type: PIR, quad, omnidirectional Distance: 16.4 ft. (5 m) Detection Range: 90 x 30 (HxV) Movement Speed: 2.62 – 3.94 ft/s (0.8 – 1.2 m/s) Detection Object: 15.75 x 9.84 in. (400 x 250 mm) | — | X | — |
| Inputs | T1, 0 – Normally Open (NO) or Normally Closed (NC) dry contact, or 0-10 Vdc AI, or 50 kOhm thermistor @ 77°F (25°C) A, B – Communication +/- (RS485) In1, 0 – NO or NC dry contact, or 0-10 Vdc AI, or 50 kOhm thermistor @ 77°F (25°C) C, R – Power 24 VAC | | |
| Outputs | 11, 12, 13 – DO, 3A 14 – DO 0.3A 15, 16 – DO 0.3A or AO 0-10 Vdc, 5 mA max., not isolated | | |
| Environmental Operating Range | 50° to 122°F (10° to 50°C), 10 – 90% RH, non-condensing | | |
| Housing | Square form factor, fire-retardant ABS plastic, UL94V-0 | | |
| Mounting | Installs to a standard wall box with mounting hardware included (consult technical instructions) | | |

| | |
|-------------------|--|
| Compliance | FCC CFR47, chapter 1, subchapter A, part 15, class B ICC, ICES-003, class B CE Mark LVD, 2014/35/EU RoHS 2011/65/EU C-Tick Mark, AS/NZS 61000-6-3 CA Prop. 65 |
| Dimensions | 3.62" W x 3.19" H x 0.91" D (9.2cm W x 8.1cm H x 2.3cm D) |
| Weight | 4.8 oz (0.14 kg) |

ABOUT COMPANY

- For more information, contact your local Carrier Controls Expert. Controls Expert Locator:
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Documents / Resources

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|  | Carrier TM Series i-Vu Building Automation System Thermostats [pdf] Owner's Manual TB-24-C, TB-24-HM-C, TB-C, TM-24, TM-24-HM, TM-24, TM Series i-Vu Building Automation System Thermostats, TM Series, i-Vu Building Automation System Thermostats, Building Automation System Thermostats, Automation System Thermostats, Thermostats |
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References

- [Find a Carrier Expert in Your Area | Carrier Commercial Systems North America](#)
- [User Manual](#)

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